

WHAT IS CLAIMED IS:

1. An operation control system for controlling a plurality of power generating facilities, comprising
means for gradually weighting the levels of
5 failures of said power generating facilities according to operating status information of each of said power generating facilities and
means for outputting preset information
corresponding to each weighted failure level.
- 10 2. An operation control system for collectively controlling a plurality of power generating facilities which are dispersed remotely or for supporting to control said distributed power generating facilities, comprising
15 means for transferring information on operating status and secular characteristic changes of apparatus from said power generating facilities or information from operators of selected power generating facilities,
means for processing and diagnosing information
20 transferred by said transferring means,
means for weighting the level of a failure of a power generating facility which has a failure according to the information sent from said processing and diagnosing means, and
25 means for selecting related repairing information

from repairing information prepared for each of said failure weights and transmitting thereof to the related operation section and the operation supporting section of said power plant.

5 3. An operation control system in accordance with Claim 2, further comprising means for transmitting said repairing information to a location which requires repairing or to a repairing personnel when said power generating facility has a failure to be
10 repaired.

 4. An operation control system for power generating facilities comprising a control facility which maintains and controls a plurality of power supplying facilities, wherein said control facility
15 selects from repairing period periods and procedures required to repair failures which occur in said plurality of power supplying facilities and performs maintenance and management of power supplying facilities which have failures.

20 5. A method of maintaining and managing a plurality of power supplying facilities which supply power to arbitrary power systems, comprising the steps of

 selecting a repairing period and procedure for a
25 failure which occurred in at least one of said power

supplying facilities from repairing periods and
procedures which are predetermined according to levels
of failures and

controlling the operation of at least one of power
5 supplying facilities except the power supplying
facility which has the failure according to the
selected repairing period and procedure.

6. A method of maintaining and managing a
plurality of power supplying facilities which supply
10 power to arbitrary power systems, comprising the steps
of

selecting a repairing period and procedure for a
failure which occurred in at least one of said power
supplying facilities from repairing periods and
15 procedures which are predetermined according to levels
of failures and

instructing to repair the power supplying facility
which has the failure according to the selected
repairing period and procedure.

20 7. A method of maintaining and managing a
plurality of power supplying facilities which supply
power to arbitrary power systems, comprising the steps
of

selecting some possible causes for a failure which
25 occurred in at least one of said power supplying

facilities in the order of highest possibility to lowest possibility and information of a phenomenon which may extend or propagate if the failure is left unpaired, and

5 presenting the selected item information.

8. A method of maintaining and managing a plurality of power supplying facilities which supply power to arbitrary power systems, comprising the steps of

10 receiving information of a failure which occurred in at least one of said power supplying facilities through communication means,

 selecting a repairing period and procedure for a failure in the received information from repairing
15 periods and procedures which are predetermined according to levels of failures and

 outputting an instruction to control the operation of at least one of power supplying facilities except the power supplying facility which has the failure
20 according to the selected repairing period and procedure.

9. A method of maintaining and managing a plurality of power supplying facilities which supply power to arbitrary power systems, comprising the steps
25 of;

receiving failure information of a power supplying facility which has a failure and checking whether the failure is a fatal fault which requires the power supplying facility to stop,

5 determining the level of the non-fatal fault from said failure information when the failure is not a fatal fault,

 selecting a period and a procedure to repair said failure from repairing periods and procedures which
10 are predetermined according to levels of failures and showing the selected repairing period and procedure.

 10. A method of maintaining and managing a plurality of power supplying facilities which supply
15 power to arbitrary power systems, comprising the steps of;

 obtaining failure information of a power supplying facility which has a failure from an error supervision/diagnosis means,

20 determining the level of said failure by a fault level judge, and

 showing a predetermined repairing period and procedure according to the determined fault level.

 11. A method of maintaining and managing a
25 plurality of power supplying facilities which supply

power to arbitrary power systems, comprising the steps of;

comparing actual operation data of said power supplying facilities by normal and abnormal operation data which was stored in a database in advance,

checking for any operation error,

outputting failure information from said error supervision/diagnosis means when finding an operation error,

determining the level of said failure by a fault level judge from said output failure information, and showing a predetermined repairing period and procedure according to the determined fault level.

12. An operation and management system for power generating facilities which maintains and manages a plurality of power supplying facilities which supply power to arbitrary power systems, comprising

a database storing operation data obtained while the facilities are in normal operating states and operation data obtained while the facilities are in abnormal states,

an error supervision/diagnosis means which compares actual operation data of said power supplying facilities by operation data stored in said database, checks for any operation error,

and outputs failure information when finding an operation error,

a fault level judge which determines the level of said failure from said output failure information; and

5 an operation scheduling means which shows a predetermined repairing period and procedure selected according to the determined failure level.